



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J12050043

Project Name: MIAMI-FORT NPDES - MONTHLY

Customer Name(s): Sue Wallace, Matthew Dorn, Mark Harper, Todd Spade, Tara Thomas, Matthew

Customer Address: 11021 BROWER RD.
NORTH BEND, OH 45052

Lab Contact: Theron T James **Phone:** 980-875-4795

Report Authorized By: _____ **Date:** 5/16/2012
(Signature)

Program Comments:

Miami Fort May NPDES - Monthly
Please review the additional information for the boron results for outfall 608 sample. The boron results should be considered as estimates because the matrix spike and matrix spike duplicate failed for the sample.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2012009805	MIAMI-FORT	01-May-12 8:45 AM	Mark Harper	OUTFALL 002
2012009806	MIAMI-FORT	01-May-12 8:00 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes

☐ No

All Results are less than the laboratory reporting limits.

☐ Yes

☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes

☐ No

The Vendor Laboratories have been qualified by the Analytical Laboratory

Yes

Report Sections Included:

☒ Job Summary Report

☒ Sample Identification

☒ Technical Validation of Data Package

☒ Analytical Laboratory Certificate of Analysis

☐ Analytical Laboratory QC Report

☒ Sub-contracted Laboratory Results

☐ Customer Specific Data Sheets, Reports, & Documentation

☐ Customer Database Entries

☒ Chain of Custody

☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Theron T James

Date: 5/16/2012

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J12050043

Site: OUTFALL 002

Collection Date: 01-May-12 8:45 AM

Sample #: 2012009805

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL DISSOLVED SOLIDS</u>								
Vendor Parameter	Complete				1	V_PACE		

Site: OUTFALL 608

Collection Date: 01-May-12 8:00 AM

Sample #: 2012009806

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>								
Alkalinity (mg/L CaCO ₃)	1200	mg/L (CaCO ₃)	N	0.1	1	SM2320B	04-May-12 11:11	TJA7067
<u>INORGANIC IONS BY IC</u>								
Chloride	3700	mg/L	N	100	1000	EPA 300.0	03-May-12 15:30	JAHERMA
Fluoride	8.0	mg/L	N	5	50	EPA 300.0	03-May-12 15:30	JAHERMA
Sulfate	14000	mg/L	N	300	3000	EPA 300.0	03-May-12 15:30	JAHERMA
<u>TOTAL METALS BY ICP</u>								
Boron (B)	283	mg/L	N1; N	0.5	10	EPA 200.7	04-May-12 11:00	DJSULL1
Iron (Fe)	0.049	mg/L	N	0.01	1	EPA 200.7	04-May-12 11:00	DJSULL1
Manganese (Mn)	0.033	mg/L	N	0.005	1	EPA 200.7	04-May-12 11:00	DJSULL1
<u>TOTAL RECOVERABLE METALS BY ICP-MS</u>								
Arsenic (As)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Barium (Ba)	98.7	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Cadmium (Cd)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Chromium (Cr)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Copper (Cu)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Lead (Pb)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
Zinc (Zn)	< 20	ug/L	N	20	1	EPA 200.8	07-May-12 13:24	KRICHR
<u>TOTAL DISSOLVED SOLIDS</u>								
Vendor Parameter	Complete				1	V_PACE		
<u>TOTAL SUSPENDED SOLIDS</u>								
Vendor Parameter	Complete				1	V_PACE		

Qualifiers:

N1 See additional information listed below.

Certificate of Laboratory Analysis

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Order # J12050043

-- Additional Information --

The MS/MSD for Boron failed. Recovery calculations are not required if the concentration added (in this case 5 ppm) is less than 30% of the sample background concentration (in this case 85 ppm). (Method 200.7, Rev 4.4, Section 9.4.3). All other qc associated with this analysis is acceptable. M. Galvin-Karr 5/7/2012

May 11, 2012

Program Manager
Duke Energy

RE: Project: J12050043
Pace Project No.: 92117737

Dear Program Manager:

Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

Report revised May 11, 2012 to update collection time for 2012009806 from 08:45 to 08:00.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Godwin for
Kevin Herring
kevin.herring@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: J12050043

Pace Project No.: 92117737

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460147

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: J12050043

Pace Project No.: 92117737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92117737001	2012009805	Water	05/01/12 08:45	05/02/12 15:35
92117737002	2012009806	Water	05/01/12 08:00	05/02/12 15:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: J12050043

Pace Project No.: 92117737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92117737001	2012009805	SM 2540C	LMD	1	PASI-A
92117737002	2012009806	SM 2540C	LMD	1	PASI-A
		SM 2540D	LMD	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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HITS ONLY

Project: J12050043

Pace Project No.: 92117737

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92117737001	2012009805					
SM 2540C	Total Dissolved Solids	798	mg/L	25.0	05/04/12 22:59	
92117737002	2012009806					
SM 2540C	Total Dissolved Solids	28000	mg/L	500	05/04/12 23:00	
SM 2540D	Total Suspended Solids	20.6	mg/L	5.0	05/04/12 00:27	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J12050043

Pace Project No.: 92117737

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: Duke Energy

Date: May 11, 2012

General Information:

2 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J12050043

Pace Project No.: 92117737

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: Duke Energy

Date: May 11, 2012

General Information:

1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: J12050043

Pace Project No.: 92117737

Sample: 2012009805		Lab ID: 92117737001		Collected: 05/01/12 08:45		Received: 05/02/12 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	798	mg/L	25.0		1		05/04/12 22:59		



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ANALYTICAL RESULTS

Project: J12050043

Pace Project No.: 92117737

Sample: 2012009806		Lab ID: 92117737002		Collected: 05/01/12 08:00		Received: 05/02/12 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	28000	mg/L	500		1		05/04/12 23:00		
2540D Total Suspended Solids		Analytical Method: SM 2540D							
Total Suspended Solids	20.6	mg/L	5.0		1		05/04/12 00:27		

QUALITY CONTROL DATA

Project: J12050043

Pace Project No.: 92117737

QC Batch: WET/20731

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 92117737001, 92117737002

METHOD BLANK: 759747

Matrix: Water

Associated Lab Samples: 92117737001, 92117737002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	05/04/12 22:58	

LABORATORY CONTROL SAMPLE: 759748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	80-120	

SAMPLE DUPLICATE: 759749

Parameter	Units	92117665001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1490	1510	1	10	

QUALITY CONTROL DATA

Project: J12050043

Pace Project No.: 92117737

QC Batch: WET/20711

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 92117737002

METHOD BLANK: 759093

Matrix: Water

Associated Lab Samples: 92117737002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	2.5	05/04/12 00:26	

LABORATORY CONTROL SAMPLE: 759094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	250	260	104	80-120	

SAMPLE DUPLICATE: 759095

Parameter	Units	92117744001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	303	309	2	10	

SAMPLE DUPLICATE: 759096

Parameter	Units	92117500001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1110	1100	1	10	

QUALIFIERS

Project: J12050043
Pace Project No.: 92117737

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J12050043

Pace Project No.: 92117737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92117737001	2012009805	SM 2540C	WET/20731		
92117737002	2012009806	SM 2540C	WET/20731		
92117737002	2012009806	SM 2540D	WET/20711		

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM



Duke Energy Analytical Laboratory

Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N. C. 28078

(704) 875-5245

(704) 875-4349

Fax:

Analytical Laboratory Use Only

LIMS #

J12050043

Sample Class NPDES

Samples
Originating
From

OHIO

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DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT

Logged By

Date & Time

8/4

5/2/12 1102

SAMPLE PROGRAM
NPDES

PACE
PO #146146

Cooler Temp (C)

15 Preserv.: 1=HCL

2=H₂SO₄ 3=HNO₃

4=Ice 5=None

MR #

Customer to complete all
appropriate non-shaded areas.

16 Analyses

Required

17 Comp.

18 Grab

TDS (PACE)

Cl, F, SO₄

B, Fe, Mn, As, Ba,

Cd, Cr, Cu, Pb, Zn

TSS (PACE)

Alkalinity

14 Collection Information

Date

Time

Signature

5-1-12 0845 711/Myrflager
5-1-12 0800 Mark Hager

X

X

1

1

1

2

1

LAB USE ONLY

11 Lab ID

12 Chem

Desktop No.

13 Sample Description or ID

2612009805
2012009806

92117737001

002

Outfall 002

Outfall 608

Customer to complete appropriate columns to right

Customer to sign & date below - fill out from left to right.

1) Relinquished By

Date/Time

Mark Hager

5-1-12 0915hrs

2) Accepted By

Date/Time

COWIER

5/1/12

3) Relinquished By

Date/Time

COWIER

5/2/12 1045

4) Accepted By

Date/Time

K. Harris

5/2/12 1045

5) Relinquished By

Date/Time

6) Accepted By:

Date/Time

7) Relinquished By

Date/Time

8) Accepted By:

Date/Time

9) Seal/Locked By

Date/Time

Mark Hager

5-1-12 0915hrs

10) Seal/Lock Opened By

Date/Time

K. Harris

5/2/12 1100

11) Seal/Locked By

Date/Time

12) Seal/Lock Opened By

Date/Time

Customer, IMPORTANT!
Please indicate desired turnaround.

22 Requested Turnaround

10 Days ☒ X7 Days ☐48 Hr ☐Other ☐


* Add. Cost Will Apply

5-9-12

Comments:

ICP TOT - B, Fe, Mn IMS-TRM - As, Ba, Cd, Cr, Cu, Pb, Zn

Fe HACH = 0.20mg/L

	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: January 30, 2012 Page 1 of 2
	Document Number: F-CHR-CS-03-rev.06	Issuing Authority: Pace Huntersville Quality Office

Client Name: Duke EnergyProject # 92117737Where Received: ☒ Huntersville ☐ Asheville ☐ EdenCourier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ noPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____Thermometer Used: IR Gun/T1101 T1102 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1101: No Correction T1102: Subtract 1.2°C

Corrected Cooler Temp.: 3.9°C

Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: Jmm 5-3-12

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: KCH Date: 5/3/12 SRF Review: KCH Date: 5/4/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT